A method for determining the location of a mobile station, comprising:
 receiving a plurality of simulcast signals from respective base stations;
 determining relative time of arrival information for the received plurality of
 simulcast signals; and

determining the position of the mobile station.

- 2. The method according to claim 1, further including determining the relative time of arrival information using characteristics inherent in the received signal.
- 3. The method according to claim 2, wherein the inherent characteristics of the received signal include time dispersion due to simultaneous transmission of the substantially identical simulcast signals.
- 4. The method according to claim 3, wherein the received simulcast signals having an OFDM modulation format.
- 5. The method according to claim 4, further including estimating channel frequency response.
- 6. The method according to claim 5, further including transforming the channel frequency response to obtain the relative time of arrival information.
- 7. The method according to claim 1, further including receiving base station ID information in the respective simulcast signals.
- 8. The method according to claim 1, further receiving GPS signals for determining the relative time of arrival information.

- 9. The method according to claim 1, further including utilizing Doppler shift information associated with movement of the mobile station to determine the position of the mobile station.
- 10. The method according to claim 1, further including computing a locus of points having a distance from first and second ones of the plurality of base stations that differs by a signal time of arrival difference for signals from the first and second ones of the plurality of base stations.
- 11. The method according to claim 10, further including further loci of points for further pairs of base stations.
- 12. The method according to claim 1, further including computing the relative time of arrival information using differential in frequency information.
- 13. The method according to claim 1, further including receiving a signal from a first one of the plurality of base stations to a second one of the plurality of base stations for identifying the simulcast signals from respective first and/or second ones of the plurality of base stations.
- 14. The method according to claim 1, further including transmitting the mobile station position from the mobile station to one or more of the plurality of base stations.
- 15. The method according to claim 14, further including transmitting the mobile station position from the one or more plurality of base stations to a network server associated with the one or more plurality of base stations.
- 16. The method according to claim 1, further including broadcasting information associated with the mobile station position.

- 17. The method according to claim 15, further including broadcasting location-specific advertisements.
- 18. A method for receiving location information for a mobile station, comprising:

 transmitting simulcast signals to the mobile station; and
 receiving mobile station location information from the mobile station determined
 from relative time of arrival information for the simulcast signals.
- 19. The method according to claim 18, further including transmitting simulcast OFDM signals.
- 20. The method according to claim 19, further including transmitting location-specific information to the mobile station.
- 21. A mobile station, comprising:
- a receiver for receiving simulcast signals from a plurality of base stations; and a processor for determining time of arrival information for the received simulcast signals and identifying a location of the mobile station.
- 22. The mobile station according to claim 21, wherein the simulcast signals are OFDM signals.
- 23. The mobile station according to claim 21, further including a transmitter for transmitting the mobile station location to one or more of the plurality of base stations.
- 24. A wireless network for providing location specific information to a mobile station, comprising:
 - a plurality of base stations for transmitting simulcast signals;
- a mobile station for receiving the simulcast signals and determining a location of the mobile station.

- 25. The network according to claim 24, wherein the simulcast signals are OFDM signals.
- 26. The network according to claim 24, further including at least one network server for providing location-specific information to the mobile station based upon mobile station location information provided to one or more of the plurality of base stations.

27. A wireless network, comprising:

a plurality of base stations for transmitting simulcast signals to mobile stations and receiving mobile station location information to broadcast location specific information to the mobile stations.